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UNITED STATES GOVERNMENT

# Memorandum

TO : Director of Communications

OCE M75-329

DATE: 05 SEP 1975

FROM : Chief, Communications Engineering

SUBJECT: Monthly Narrative Summary Report - August 1975

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2. SV-8's will be shipped for the Field Introduction Program during the first week of September vice the previously scheduled 25 August. A technical problem in the digital paging unit and completion of a cursory operational evaluation caused the delay. Discussions were held with [REDACTED] concerning a UHF transmitter and receiver version of the T/R-105. The T-105A VHF transmitter, which uses the VCXO and 1-watt amplifier microcircuits in lieu of discrete components, was accepted. Finally, a Class C evaluation was begun on a prototype repeater for use with the SV-8.

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3. An operational and a cursory technical evaluation of the RS-711 Digital Signaling System prototype, completed during the month, disclosed impressive results. A seventh field unit is currently being fabricated by the vendor using hermetically sealed microcircuits which should improve the environmental reliability. Delivery of this unit is expected by 30 September. The RS-711 was turned over to OC-O/COD for operational testing.

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4. Twenty-nine [REDACTED] equipment items were delivered to the Office of Technical Service for Project [REDACTED]

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5. Four TAR-224's, pack frames, generators, batteries and accessories in addition to six RS/B-523's were shipped for a crash requirement.

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6. [REDACTED] has successfully tested a CY-5 with new signal line filters. They have submitted a proposal to modify existing CY-5's.



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7. The remaining equipment to complete the partial TE-40 test packages, deployed earlier this year, has been forwarded to all Area Headquarters except [REDACTED]

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8. A priority task has been started to inventory all items stocked in the [REDACTED] Reserve as well as establishing card systems for accountability of items in [REDACTED] stock including due-in and due-out information. This is required because indications of due-in's and due-out's have been removed from the computer run. The card files will restore the item trace information necessary for audit requirements.

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9. An innovation to the TECHREQ cable handling between OC-E/ESD/TSB and OC-E/CED/QAB began on 28 August. TSB will telephone the pertinent information at the time of the receipt of the TECHREQ; then, the TECHREQ will be pouched to QAB as confirming documentation. We believe this procedure will reduce the turn-around time on repair and return by several days.

10. The third shipment of 20 each KG-13's from the Bluegrass Army Depot was received and inspected. To date, 60 units have been tested with an acceptance rate of 84%. Personnel at Bluegrass have been notified of the failed units via NSA and are planning to visit our testing facility early in September.

11. An inventory of the TSB crystal bank has been completed. The total count of crystals contained in the bank was 341,529, and at an average cost of \$4 per crystal, the total value would be \$1,366,116. From the above total count, a certain percentage of crystals will not be usable, and it is planned to systematically send [REDACTED] these crystals for stripping and sorting. The reclaimed quartz blanks will be returned to us for use in our new base plater when that operation gets under way later this fall.

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12. The final acceptance testing on the DATEX System was completed on 12 August. The remainder of the DATEX equipment was purchased on 28 August. The applicability of the [REDACTED] cost analysis citing a total estimated cost overrun of \$269,000 is being determined.

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13. The ARS-III installation [REDACTED] commenced on 4 August 1975 as scheduled. Acceptance and cutover of the system was to have been accomplished by the end of August. However, due to power problems (UCPS malfunction), system acceptance was rescheduled to take place on 3 September.

14. The AFT procurement specification has been completed in draft form and will be forwarded to appropriate OC components for review o/a 8 September. It is expected that the RFP will be delivered to respective bidders by the end of September. In response to a pending OD&E requirement for an "AFT-like" terminal--complete with OCR--to be installed and operational by January 1976, a visit was made to [REDACTED] to discuss their "Smart" communications terminal development. [REDACTED] is developing a terminal utilizing the Teletype M-40 KDP (Keyboard, Display, Printer) and a microprocessor as the terminal "brains." With the addition of an OCR, the [REDACTED] terminal could meet the OD&E terminal requirement.

15. Installation and checkout of the on-site CDS test system continued through the month. Meanwhile, renovations in the Cable Secretariat area were in full swing. Cable analysts were temporarily relocated to the telephone facilities area while renovations proceeded.

16. A demonstration of HF time-diversity modems, manufactured by [REDACTED] Corporation, was successfully conducted on a simulated RTTY circuit. Subsequently, procurement action was initiated for a set of these modems to be field tested on the [REDACTED] HF trunk circuit. A report on the [REDACTED] and ACC HF error-control devices was also prepared and distributed during the month.

17. [REDACTED] latest report advised that there will be a delay in the delivery of the tandem switch to Headquarters. They expect that the delay may be as much as 30 days. A review of their new schedule will be conducted in Dallas, Texas on 4 and 5 September.

18. A pre-bidders conference covering the [REDACTED] secure communications system installation was conducted on 27 August. Vendors represented were [REDACTED] and [REDACTED]. The bids are due on 10 September. An FFP (Firm Fixed Price) contract was specified by Procurement Division, OL.

19. Action has been taken for the procurement of KG-34 and HN-74 crypto equipments to be used to support the Imagery Transmission System (ITS). The ITS system design being performed by [REDACTED] appears to be on schedule.

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